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(71) Applicant *(for all designated States except US)*: **MICRO-ROBOT CO., LTD.** [KR/KR]; Bowoo Bldg., #40-26 Cheongdam-Dong, Gangnam-Gu, Seoul 135-102 (KR).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **KIM, Kyeong-Keun** [KR/KR]; 301 Eunkoang Villa, Cheongdam2-Dong, Gangnam-gu, Seoul 135-102 (KR).

(74) Agent: **KIM, Ham-Kon**; Hyundai Life Insurance Bldg. 5F., 649-14 Yoksam-Dong, Gangnam-Gu, Seoul 135-080 (KR).

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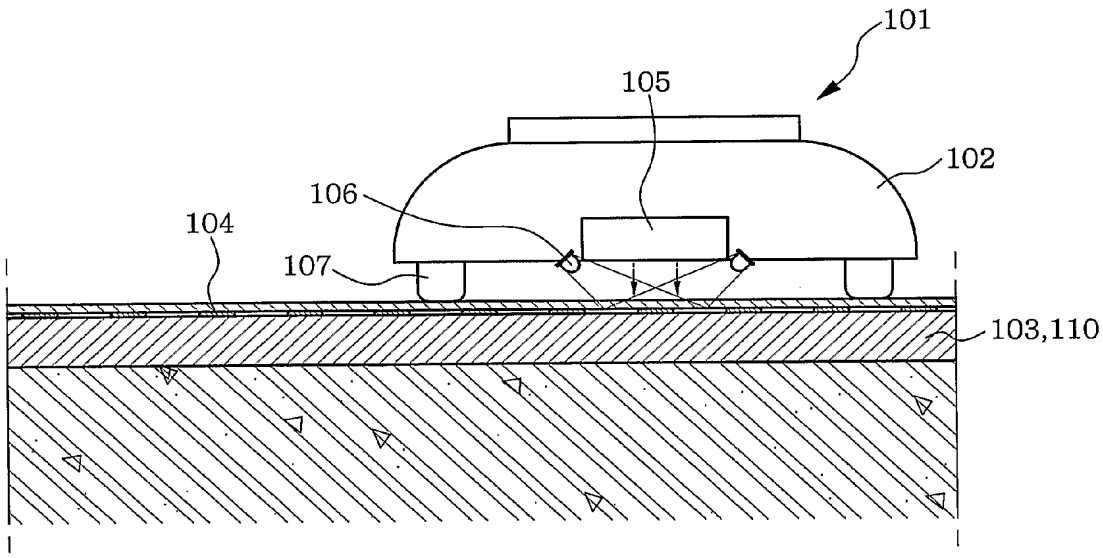
(54) Title: NAVIGATION SYSTEM FOR POSITION SELF CONTROL ROBOT AND FLOOR MATERIALS FOR PROVIDING ABSOLUTE COORDINATES USED THEREOF



(57) Abstract: A navigation system for a position self control robot including a main body having a locomotion unit is provided. The navigation system includes two-dimensional (2D) barcodes, a barcode reader, and a control unit. The 2D barcodes are formed at predetermined intervals on a floor having a predetermined size and respectively have different unique coordinate values. The barcode reader is installed at a predetermined position in a lower portion of the main body to read a 2D barcode on the floor. The control unit is installed at the main body to be electrically connected with the barcode reader, recognizes absolute coordinates within a predetermined area, which are stored in memory, based on a unique coordinate value of the 2D barcode read by the barcode reader, applies the absolute coordinates to a programmed locomotion algorithm, and controls the locomotion unit to move the main body.

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